

### *Claims*

**Claim 1-13. (previously cancelled)**

**Claim 14. (currently amended)** A method for creating a consumer's shopping list prior to entering a store, comprising the steps of:

- (a) using a portable barcode scanner;
- (b) scanning a needed product barcode or a needed product coupon barcode using said portable barcode scanner;
- (c) using one or more ~~said~~ consumer's first computers comprising the sub-steps of:
  - (i) receiving data from, and transmitting data to, said portable barcode scanner ~~over said~~ over a consumer's first network infrastructure;
  - (ii) storing said data as current shopping list information under control of said product barcode or said product coupon barcode, in a memory means;
  - (iii) communicating with a second computer system, over a second network infrastructure to request and to receive additional shopping list information based on said product barcode or said product coupon barcode;
  - (iv) tracking frequency that said product barcode has been received from said portable barcode scanner over said first network infrastructure;

- (v) ~~providing a specific notification of repetitive scanned said product barcodes without repetitively needing a continuously scanned entry of said product barcodes, said continuously scanned entry occurring at varying times;~~  
providing a specific notification of previous shopping list information stored in said memory without needing a current scanned entry of one or more barcodes associated with said previous shopping list information, wherein said specific notification occurring at a time when consumer creates said current shopping list information;
- (vi) adding automatically a list of one or more products stored in said previous shopping list information to said current shopping list information at said tracking frequency at said time of creating said current shopping list information;
- ~~(vi) displaying~~ (vii) displaying a multiplicity of product barcodes or said product coupon barcodes, together with ~~said additional~~ additional shopping list information, on said consumer's first computer display;
- ~~(vii) indicating~~ (viii) indicating on said first computer display that said consumer has obtained said current shopping list information in-hand from said consumer's first computer; and
- ~~(viii) adding automatically one or more repetitively scanned product barcodes to said shopping list on said tracking frequency; and~~
- (ix) indicating that said data transmitted to and said data received from said portable barcode scanner has been successfully sent and received;
- (d) transferring said scanned product barcode or said product coupon barcode to said consumer's first computer, over said first network infrastructure;

(e) storing said transferred product barcode or said product coupon barcode in a shopping list database on said consumer's first computer, said shopping list database includes other product information, wherein said other product information includes: a product description, a product cost, a date and time on which said product barcode or said product coupon barcode was scanned and an indicator for a required quantity of said product;

(f) obtaining in-hand said stored current shopping list information from said consumer's first computer in order to go to a first store and purchase products listed on said current shopping list information, said obtaining in-hand is selected from the group comprising:

- (i) printing said stored current shopping list information on a printing device attached to said consumer's first computer,
- (ii) transferring said stored current shopping list information to a consumer's portable computer device, and
- (iii) using said portable barcode scanner;

(g) sending ~~optionally~~ said current shopping list information from said consumer's first computer to an optional second store connected to said second network infrastructure, said second store shipping products listed on said current shopping list information to said consumer, thereby not requiring said consumer to shop in-store for said products; and

(h) sending ~~optionally~~ said current shopping list information from said consumer's first computer to an optional second store connected to said second network infrastructure, said second store making said products listed on said current shopping list information available to said consumer for pick up, thereby not requiring said consumer to shop in-store for said products.

**Claim 15. (previously presented)** The portable barcode scanner of claim 14, wherein said first network infrastructure is a wireless link between said portable barcode scanner and said consumer's first computer.

**Claim 16. (previously presented)** The portable barcode scanner of claim 15, wherein said wireless link is selected from the group comprising: an infrared link and a Bluetooth-enabled radio-frequency link.

**Claim 17. (previously presented)** The portable barcode scanner of claim 14, wherein said first network infrastructure is a wired link between said portable barcode scanner and said consumer's first computer.

**Claim 18. (previously presented)** The portable barcode scanner of claim 17, wherein said wired link is selected from the group comprising: an RS-232 link, a USB link, a parallel link and an IEEE 1394 link.

**Claim 19. (previously presented)** The first computer of claim 14 is selected from the group comprising: a personal computer, a personal digital assistant, an internet appliance, and a cell phone.

**Claim 20. (previously presented)** The first computer of claim 14, wherein said second network infrastructure is the internet.

**Claims 21 – 33 (previously cancelled)**

**Claim 34. (previously presented)** The portable computer device of claim 14 is selected from the group consisting: a personal digital assistant and a cell phone.

**Claim 35. (previously presented)** The shopping list of claim 14 is selected from the group comprising: beauty aids, books, clothing, computer hardware, computer software, computer supplies, drugs, footwear, groceries, gifts, health aids and music.

**Claim 36. (currently amended)** A method for creating a consumer's shopping list prior to entering a store, comprising the steps of:

- (a) using a portable barcode scanner;
- (b) entering manually a needed product barcode or a needed product coupon barcode using said portable barcode scanner;
- (c) using one or more ~~said~~ consumer's first computers comprising the sub-steps of:
  - (i) receiving data from, and transmitting data to, said portable barcode scanner ~~over said~~ over a consumer's first network infrastructure;
  - (ii) storing said data as current shopping list information under control of said product barcode or said product coupon barcode, in a memory means;
  - (iii) communicating with a second computer system, over a second network infrastructure to request and to receive additional shopping list information based on said product barcode or said product coupon barcode;
  - (iv) tracking frequency that said product barcode has been received from said portable barcode scanner over said first network infrastructure;
  - (v) ~~providing a specific notification of repetitive manual entry said product barcodes without repetitively needing a continuously manual entry of said product barcodes, said continuously manual entry occurring at varying times;~~ providing a specific notification of previous shopping list information stored in said memory without needing a current manual entry of one or more barcodes associated with said previous shopping list information, wherein said specific notification occurring at a time when consumer creates said current shopping list information;

- (vi) adding automatically a list of one or more products stored in said previous shopping list information to said current shopping list information at said tracking frequency at said time of creating said current shopping list information;
- ~~(vi) displaying~~ (vii) displaying a multiplicity of product barcodes or said product coupon barcodes, together with ~~said additional~~ additional shopping list information, on said consumer's first computer display;
- ~~(vii) indicating~~ (viii) indicating on said first computer display that said consumer has obtained said current shopping list information in-hand from said consumer's first computer; and
- ~~(viii) adding automatically one or more repetitively manually entered product barcodes to said shopping list on said tracking frequency; and~~
- (ix) indicating that said data transmitted to and said data received from said portable barcode scanner has been successfully sent and received;
- (d) transferring said manually entered product barcode or said product coupon barcode to said consumer's first computer, over said first network infrastructure;
- (e) storing said transferred product barcode or said product coupon barcode in a shopping list database on said consumer's first computer, said shopping list database includes other product information, wherein said other product information includes: a product description, a product cost, a date and time on which said product barcode or said product coupon barcode was scanned and an indicator for a required quantity of said product;
- (f) obtaining in-hand said stored current shopping list information from said consumer's first computer in order to go to a first store and purchase products listed on said current shopping list information, said obtaining in-hand is selected from the group comprising:

- (iv) printing said stored current shopping list information on a printing device attached to said consumer's first computer,
  - (v) transferring said stored current shopping list information to a consumer's portable computer device, and
  - (vi) using said portable barcode scanner;
- (g) sending ~~optionally~~ said current shopping list information from said consumer's first computer to an optional second store connected to said second network infrastructure, said second store shipping products listed on said current shopping list information to said consumer, thereby not requiring said consumer to shop in-store for said products; and
- (h) sending ~~optionally~~ said current shopping list information from said consumer's first computer to an optional second store connected to said second network infrastructure, said second store making said products listed on said current shopping list information available to said consumer for pick up, thereby not requiring said consumer to shop in-store for said products.

**Claim 37. (previously presented)** The portable barcode scanner of claim 36, wherein said first network infrastructure is a wireless link between said portable barcode scanner and said consumer's first computer.

**Claim 38. (previously presented)** The portable barcode scanner of claim 37, wherein said wireless link is selected from the group comprising: an infrared link and a Bluetooth-enabled radio-frequency link.

**Claim 39. (previously presented)** The portable barcode scanner of claim 36, wherein said first network infrastructure is a wired link between said portable barcode scanner and said consumer's first computer.

**Claim 40. (previously presented)** The portable barcode scanner of claim 39, wherein said wired link is selected from the group comprising: an RS-232 link, a USB link, a parallel link and an IEEE 1394 link.

**Claim 41. (previously presented)** The first computer of claim 36 is selected from the group comprising: a personal computer, a personal digital assistant, an internet appliance, and a cell phone.

**Claim 42. (previously presented)** The first computer of claim 36, wherein said second network infrastructure is the internet.

**Claim 43. (previously presented)** The portable computer device of claim 36 is selected from the group consisting: a personal digital assistant and a cell phone.

**Claim 44. (previously presented)** The shopping list of claim 36 is selected from the group comprising: beauty aids, books, clothing, computer hardware, computer software, computer supplies, drugs, footwear, groceries, gifts, health aids and music.

**Claim 45. (new)** A barcode scanning system for aiding a consumer in creating a new shopping list to which products are automatically added based in part on previously entered shopping lists, said automatically added products not having been considered by said consumer at a time of creating said new shopping list, said barcode scanning system comprising:

a portable barcode scanner with a means to scan a product's barcode;

one or more consumer's first computers connected to said portable barcode scanner over a first network means, wherein said first computer includes a means to store in a memory means one or more barcodes received over said first network means from said barcode scanner in order to create said new shopping list, and wherein said first computer includes a means to store said received barcodes in said memory means



comprising barcodes previously received from said barcode scanner;

one or more second computers connected to said first computer over a second network means, wherein said second computer includes a means to receive said barcodes from said first computer over said second network means, as well as wherein said second computer includes a means to send product information about said barcodes to said first computer;

a printer means attached to said consumer's first computer, wherein said printer means prints said new shopping list for said consumer; and

a portable computing device with a means to receive said new shopping list from said first computer and a means to store said new shopping list in a memory means.

**Claim 46. (new)** The portable barcode scanner of claim 45, wherein

- (a) said first network infrastructure is a wireless link between said portable barcode scanner and said consumer's first computer;
- (b) said wireless link is selected from the group comprising: an infrared link and a Bluetooth-enabled radio-frequency link;
- (c) said first network infrastructure is a wired link between said portable barcode scanner and said consumer's first computer;
- (d) said wired link is selected from the group comprising: an RS-232 link, a USB link, a parallel link and an IEEE 1394 link;
- (e) said first computer is selected from the group comprising: a personal computer, a personal digital assistant, an internet appliance, and a cell phone;

(f) said second network infrastructure is the internet;

(g) said portable computer device of claim is selected from the group consisting: a personal digital assistant and a cell phone;

(h) said shopping list is selected from the group comprising: beauty aids, books, clothing, computer hardware, computer software, computer supplies, drugs, footwear, groceries, gifts, health aids and music.

**Claims 47- 62. (cancelled)**